

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number  
**WO 2004/111362 A1**

(51) International Patent Classification<sup>7</sup>: E04C 5/16, 5/18

(21) International Application Number:  
PCT/AU2004/000815

(22) International Filing Date: 21 June 2004 (21.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003903079 19 June 2003 (19.06.2003) AU

(71) Applicant and

(72) Inventor: UNDERWOOD, Daniel, Charles [AU/AU]; 12 Lewisham Court, Birkdale, Queensland 4159 (AU).

(74) Agent: INTELLEPRO; Patents & Trade Mark Attorneys, GPO Box 1339, Brisbane, Queensland 4001 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

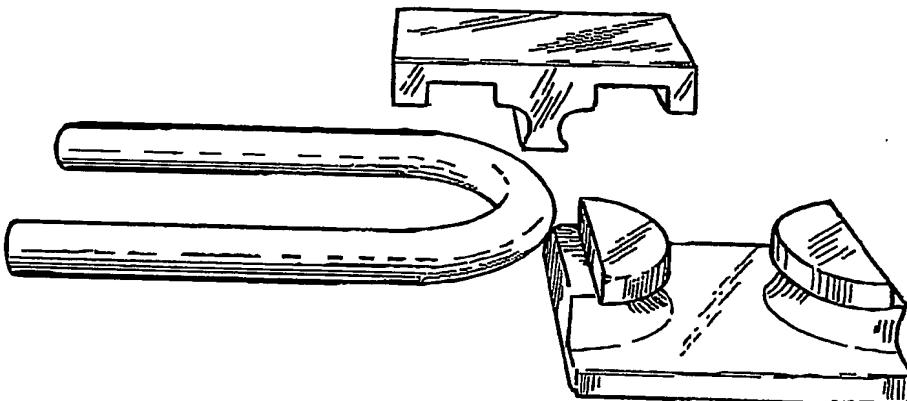
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A BAR CONNECTOR ASSEMBLY



(57) Abstract: A connector (10) and a U-shaped section of reinforcing bar (11) secured within the connector by a retainer (14). The connector (10) is symmetrical about the axial line (12) so that a corresponding reinforcing bar (11) may be located in the opposite side of the connector. The connector includes a seat section (13) and a retainer section (14). The seat section (13) includes opposed D-shaped lands (15) and (16) defining thereabout channels (17) and (18) into which the curved sections (19) of reinforcing bars (11) can be located and positioned. The retainer (14) includes a T-shaped projection (20) that extends transverse straight across the connector and serves to block compressive movement of the bars. The lands (15) and (16) inhibit deformation of the U-shaped bars when they are placed under tension. The projection (20) of the retainer and its engagement with the seat section serves to apply an outward force to the bars and an inward force to the lands (15) and (16) as the retainer is driven into place.

WO 2004/111362 A1